

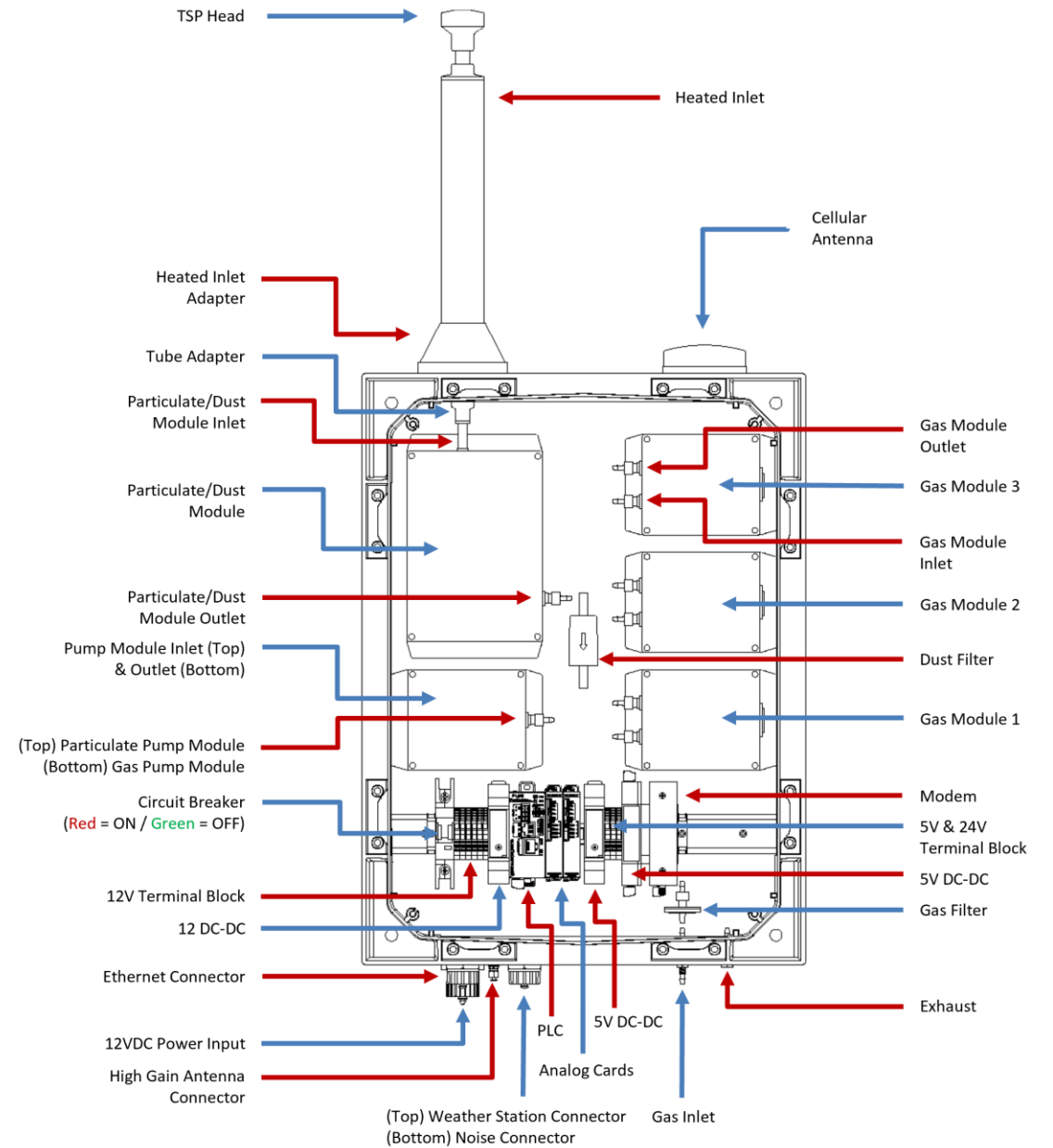
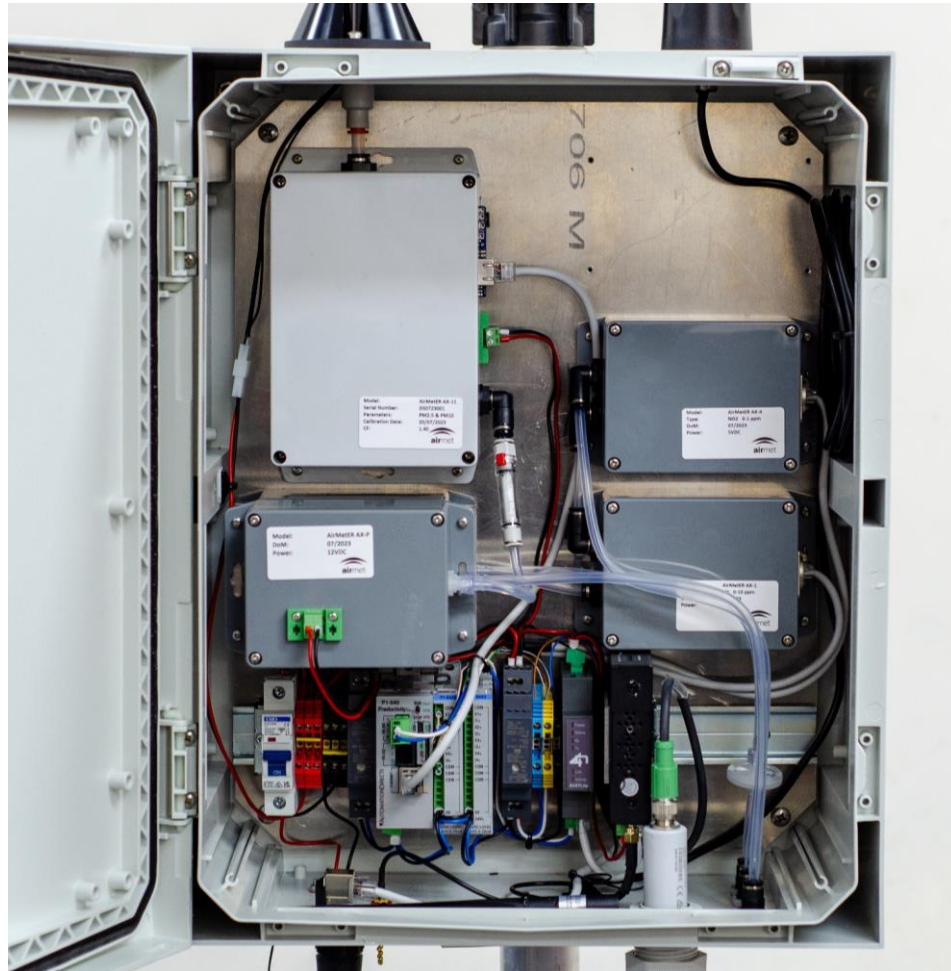
AirMetER-AX

# MAESTRO/LANTRONIX WI-FI SETUP GUIDE

Revision | August 2023



# LAYOUT OVERVIEW

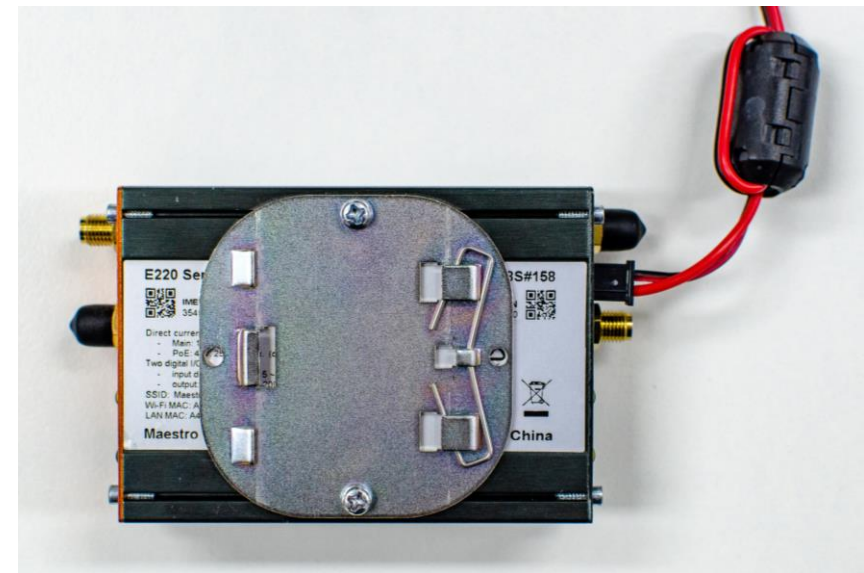


Note: Images may differ depending on the model.

# WI-FI SETUP

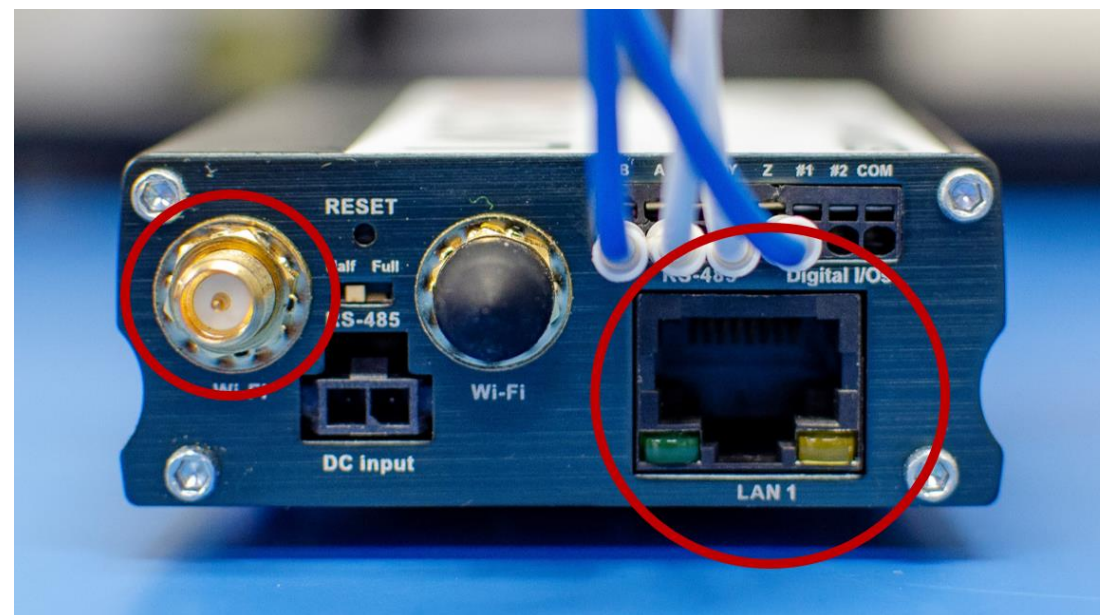
1. Setting up the Wi-Fi requires access and connectivity to the modem. If the modem can't be accessed easily, then the modem must be taken out.

To remove the modem from the DIN rail, push the modem vertically to compress the mount clip. Tilt the top of the modem down towards yourself to release it from the rail.



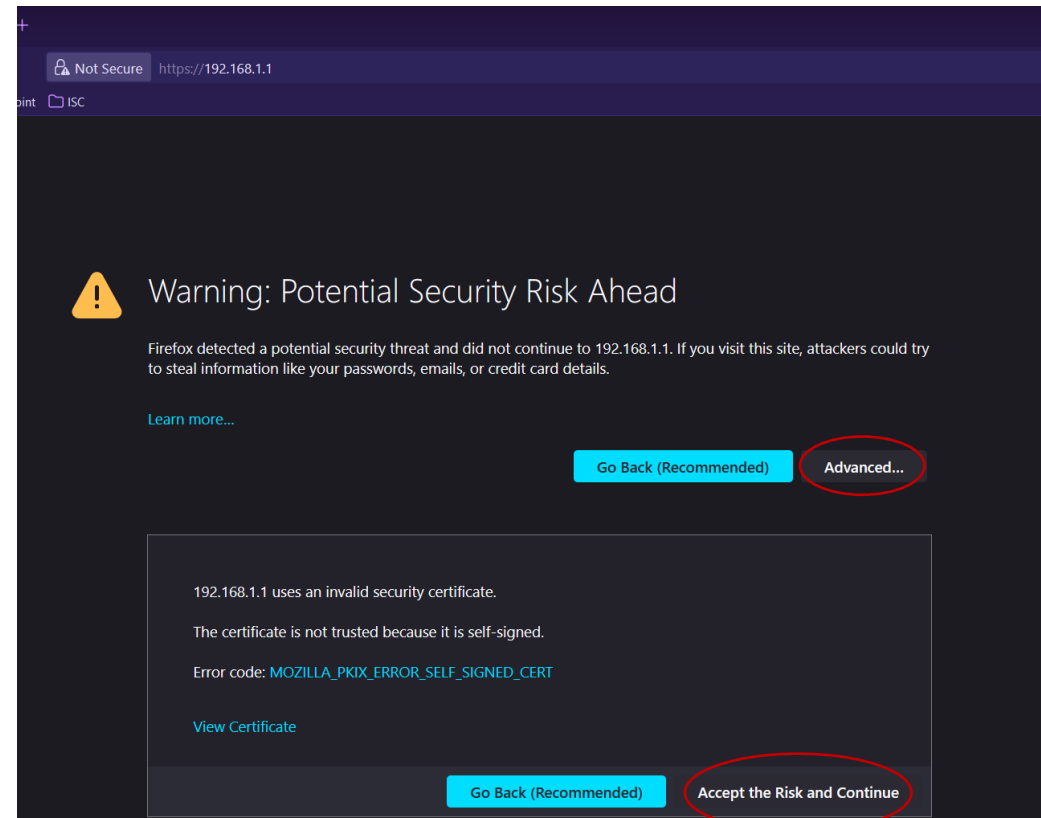
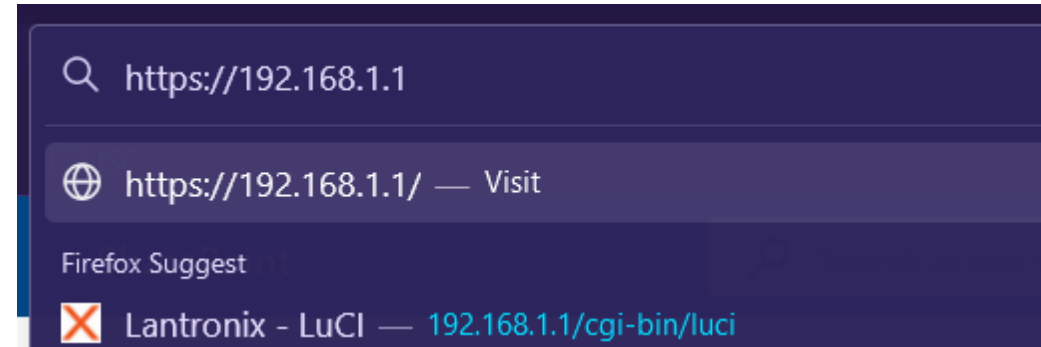
## WI-FI SETUP

2. Remove the black cover and screw the Wi-Fi antenna into place. Install an ethernet cable between your computer and the LAN1 port of the modem. If you have turned the instrument off, turn it back on now. Once the blue Wi-Fi LED is displaying on the modem, it will be ready to configure.



# WI-FI SETUP

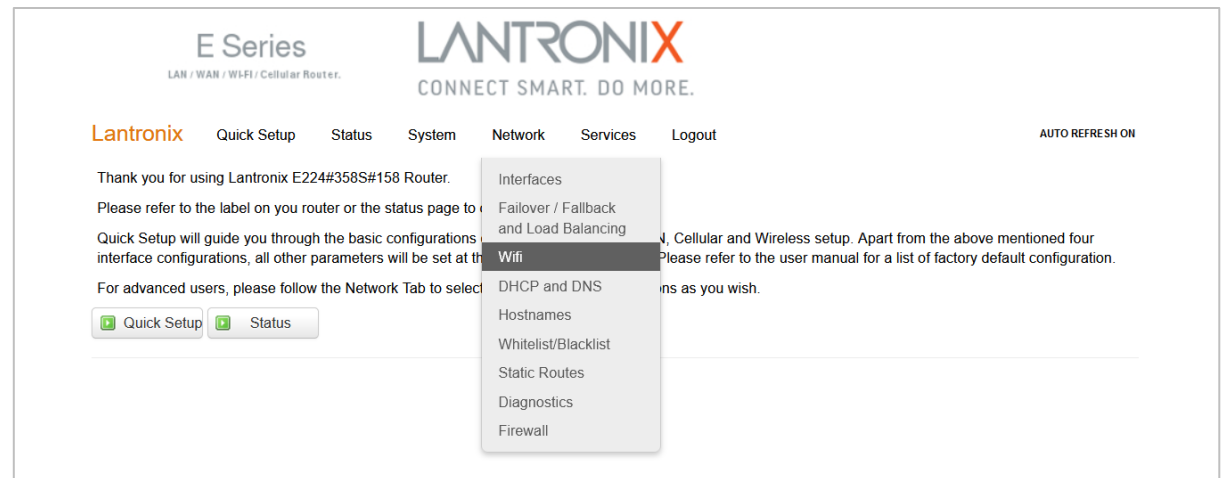
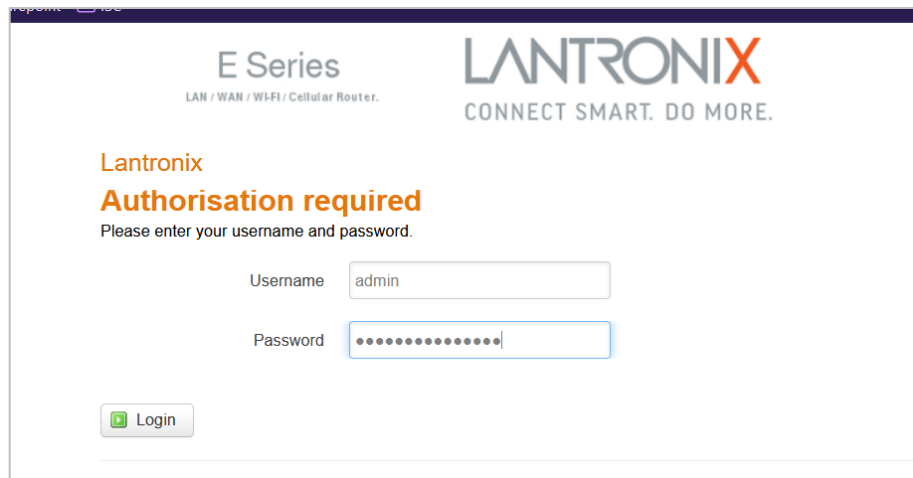
3. Open your browser and navigate to <https://192.168.1.1/>
4. Click Advanced, then select Accept the Risk and Continue.



# WI-FI SETUP

- The Lantronix or Maestro login page will load.  
Use the following details to log in:  
Username: admin  
Password: 711CeylonStreet

- Navigate to Network > Wi-Fi



# WI-FI SETUP

7. Check for an existing Wi-Fi connection. If there is a connection from a previous installation, remove this by selecting the 'Remove' button.

Note: the Lantronix E220 connection does not need to be removed.

The screenshot displays the Lantronix E Series web interface. At the top, it shows the 'E Series' logo and the tagline 'LAN / WAN / WI-FI / Cellular Router.' The Lantronix logo and slogan 'CONNECT SMART. DO MORE.' are also present. A navigation menu includes 'Lantronix', 'Quick Setup', 'Status', 'System', 'Network', 'Services', and 'Logout'. An 'AUTO REFRESH ON' indicator is visible on the right. Below the navigation, the text 'radio0: Master "Lantronix E220"' is shown. The 'Wireless Overview' section features a card for 'Generic MAC80211 802.11bgn (radio0)' with a signal strength indicator at 71%. The card displays the SSID 'Lantronix E220', Mode 'Master', BSSID 'A4:AE:9A:04:17:82', and Encryption 'mixed WPA/WPA2 PSK (CCMP)'. Action buttons for 'Scan', 'Add', 'Disable', 'Edit', and 'Remove' are provided. The 'Associated Stations' section contains a table with the following data:

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
Lantronix E220	F8:94:C2:D5:88:D8	192.168.1.212	-60 dBm	0 dBm	6.0 Mbit/s, MCS 0, 20MHz	58.5 Mbit/s, MCS 6, 20MHz

# WI-FI SETUP

8. Click 'Scan' to search for the intended Wi-Fi network.
9. Find the intended Wi-Fi network with the greatest signal and click 'Join Network'.

The screenshot shows the 'Wireless Overview' page of a Lantronix E Series router. At the top, it displays 'E Series LAN / WAN / Wi-Fi / Cellular Router' and the Lantronix logo with the tagline 'CONNECT SMART. DO MORE.'. Below this is a navigation menu with 'Lantronix', 'Quick Setup', 'Status', 'System', 'Network', 'Services', and 'Logout'. A status indicator shows 'radio0: Master "Lantronix E220"'. The main section is titled 'Wireless Overview' and features a 'Generic MAC80211 802.11bgn (radio0)' entry. This entry shows a signal strength of 71% and provides details: Channel: 1 (2.412 GHz) | Bitrate: 58.5 Mbit/s. It also lists SSID: Lantronix E220 | Mode: Master and BSSID: A4:AE:9A:04:17:82 | Encryption: mixed WPA/WPA2 PSK (CCMP). Action buttons include 'Scan', 'Add', 'Disable', 'Edit', and 'Remove'. Below this is an 'Associated Stations' section with a table:

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
Lantronix E220	F8:94:C2:D5:88:D8	192.168.1.212	-60 dBm	0 dBm	6.0 Mbit/s, MCS 0, 20MHz	58.5 Mbit/s, MCS 6, 20MHz

The screenshot shows the 'Join Network: Wireless Scan' page of a Lantronix E Series router. It features the same header and navigation menu as the previous screenshot. The main section is titled 'Join Network: Wireless Scan' and lists two discovered networks:

- RHF2S025\_F1CE98**: Channel: 4 | Mode: Master | BSSID: FC:6B:F0:F1:CE:97 | Encryption: WPA2 - PSK. Signal strength: 34%. A 'Join Network' button is visible.
- AMS-Guest**: Channel: 11 | Mode: Master | BSSID: 10:F0:68:76:46:68 | Encryption: WPA2 - PSK. Signal strength: 51%. A 'Join Network' button is visible and highlighted in yellow.



# WI-FI SETUP

10. Uncheck the box for 'Replace wireless configuration'.

11. Enter the Wi-Fi network's password in the 'WPA passphrase' section.

12. Click Submit.

The screenshot shows the 'Join Network: Settings' page for a Lantronix E Series router. The page includes a navigation menu with 'Lantronix', 'Quick Setup', 'Status', 'System', 'Network', 'Services', and 'Logout'. The 'Network' menu item is highlighted. The main heading is 'Join Network: Settings'. Below this, there are several configuration options:

- 'Replace wireless configuration' is checked, with a note: 'An additional network will be created if you leave this unchecked.'
- 'WPA passphrase' is a text input field with a green lock icon and a note: 'Specify the secret encryption key here.'
- 'Name of the new network' is a text input field containing 'wwan', with a note: 'The allowed characters are: A-Z, a-z, 0-9 and \_'.
- 'Create / Assign firewall-zone' has three radio button options:
  - 'lan: lan:' (unselected)
  - 'wan: wan: cellular: openvpn\_1: openvpn\_2:' (selected)
  - 'unspecified -or- create:' (unselected)
- A note at the bottom: 'Choose the firewall zone you want to assign to this interface. Select unspecified to remove the interface from the associated zone or fill out the create field to define a new zone and attach the interface to it.'

At the bottom right, there are two buttons: 'Submit' and 'Back to scan results'.

# WI-FI SETUP

13. When you reach this page, simply wait for the status to load, then click 'Save & Apply'.

E Series  
LAN | WAN | WiFi | Cellular Router.

LANTRONIX  
CONNECT SMART. DO MORE.

Lantronix Quick Setup Status System Network Services Logout

UNSAVED CHANGES: 13 AUTO REFRESH ON

radio0: Master "AMS-Guest"

### Wireless Network: Master "AMS-Guest" (radio0.network1)

The Device Configuration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the Interface Configuration.

#### Device Configuration

General Setup **Advanced Settings**

Status **0%** Mode: Master | BSSID: AMS-Guest  
BSSID: 10:F0:68:76:46:68 | Encryption: None  
Channel: 1 (2.412 GHz) | Tx-Power: 0 dBm  
Signal: 0 dBm | Noise: 0 dBm  
Bitrate: 0.0 Mbps | Country: 00

Wireless network is enabled

Channel 11 (2.462 GHz)

Transmit Power 20 dBm (100 mW)

#### Interface Configuration

General Setup **Wireless Security**

Mode Client

ESSID AMS-Guest

BSSID 10:F0:68:76:46:68

Network  cellular  lan  openvpn\_1  openvpn\_2  wlan  create

Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network.

**Save & Apply** Save Reset

# WI-FI SETUP

14. Check the Wi-Fi details that you set up. To confirm the modem is connected to the internet through the Wi-Fi network, check for values in signal, RX Rate and TX Rate. If these are all populated, then the instrument has been successfully connected to the Wi-Fi network.

The screenshot displays the Lantronix E Series web interface. At the top, it shows the 'E Series' logo and the tagline 'CONNECT SMART. DO MORE.'. Below this is a navigation menu with options: Lantronix, Quick Setup, Status, System, Network, Services, and Logout. The 'Status' page is active, showing 'radio0: Master "Lantronix E220"' and 'radio0: Client "AMS-Guest"'. The 'Wireless Overview' section lists two wireless interfaces: 'Generic MAC80211 802.11bgn (radio0)' with a 0% signal strength and 'AMS-Guest' with a 68% signal strength. The 'Associated Stations' table below shows the 'AMS-Guest' station with a signal of -62 dBm, RX Rate of 72.2 Mbit/s, and TX Rate of 57.8 Mbit/s.

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
AMS-Guest	10:F0:68:76:46:68	?	-62 dBm	0 dBm	72.2 Mbit/s, MCS 7, 20MHz	57.8 Mbit/s, MCS 11, 20MHz

# CONTACT US

## NEED HELP?

If you have any questions or require troubleshooting while using this guide, our team are here to assist you. Please feel free to contact us at any of the following means:

 1800 000 744

 [engineeredolutions@airmet.com.au](mailto:engineeredolutions@airmet.com.au)

 [www.airmet.com.au](http://www.airmet.com.au)

Alternatively, scan the QR code to locate your nearest Air-Met Scientific office.

